

Micromar 40 F / 40 FC

Micrometer with integrated Dial Comparator

FEATURES

- Operating and display units with satin chrome finish
- Dial comparator is integrated in frame
- Adjustable tolerance markers
- Chrome plated steel frame, heat insulated
- Retraction of the movable anvil ensures maximum wear resistance
- Spindle and anvil are carbide-tipped
- Stainless spindle is hardened throughout and ground
- Locking device
- Constant measuring force
- **Package contains:** instruction manual, case



Application:

- Quick check of diameter of cylindrical parts (shafts, bolts, shanks)
- Thickness and length measurements
- Particularly suitable for exact series components

TECHNICAL DATA

Order no.		4150000	4150001	4150200	4150201
Product type		40 F		40 FC	
Measuring range	mm	0 -25	25 -50	0 -25	25 -50
Measuring surface		carbide		ceramic	
Graduation value	mm			0.01	
Error limit	μm			2	
Parallelism deviation	μm			1	
Flatness deviation	μm			0.2	
Spindle thread pitch	mm			0.5	
Measuring force	N			9	
Standard				Factory standard	
Dial comparator measuring range	μm			± 65	
Graduation value	μm			1	
Error limit G_e	μm			1	

Order no.	a	b	c	d	e
	mm	mm	mm	mm	mm
4150000	149	100	16	71	32
4150001	174	125	30	85	56
4150200	149	100	16	71	32
4150201	174	125	30	85	56

ACCESSORIES

Order no.	Product name	Product type
4158000	Stand, for holding outside micrometers	41 H
4159400	Setting gage, flat (25 mm)	43 A



43 A



41 H

Micromar 40 F

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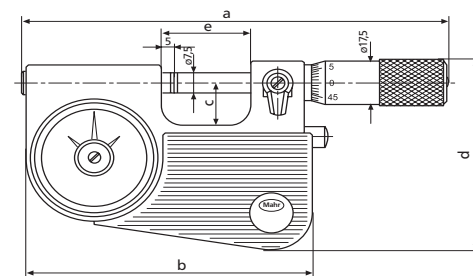
Application:

- Quick check of diameter of cylindrical parts (shafts, bolts, shanks)
- Thickness and length measurements
- Particularly suitable for exact series components

TECHNICAL DATA

Order no.	4150900	4150901
Product type		40 F
Measuring range	inch 0 – 1"	1 – 2"
Graduation value	inch	.0001"
Error limit	inch	.00008"
Parallelism deviation	inch	.00008"
Flatness deviation	inch	.00001"
Micrometer pitch	inch	.025"
Measuring force	N	9
Standard		Factory standard
Dial comparator measuring range	inch	± .0025"
Dial comparator scale graduation value	inch	.00005"
Error limit G _e	inch	.00005"

Order no.	a	b	c	d	e
	mm	mm	mm	mm	mm
4150900	149	100	16	71	32
4150901	174	125	30	85	56



ACCESSORIES

Order no.	Product name	Product type
4158000	Stand, for holding outside micrometers	41 H
4159940	Setting gage, flat (1 inch)	43 A



41 H

Micromar 40 T

DIN 863-3

Micrometer with Integrated Dial Comparator

FEATURES

- Operating and display units with satin chrome finish
- Retraction of the movable anvil ensures maximum wear resistance
- Constant measuring force
- Stainless spindle is hardened throughout and ground
- Spindle and anvil are carbide-tipped
- Locking device
- **Package contains:** instruction manual, case



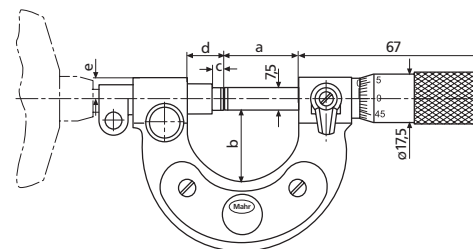
Application:

- Quick check of diameter of cylindrical parts (shafts, bolts, shanks)
- Thickness and length measurements
- Particularly suitable for exact series components

TECHNICAL DATA

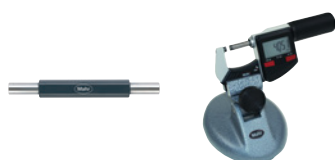
Order no.		4154000	4154001	4154002	4154003	4154004
Product type		40 T				
Measuring range	mm	0 – 25	25 – 50	50 – 100	100 – 150	150 – 200
Graduation value	mm	0.01				
Error limit	µm	2				
Parallelism deviation	µm	2				
Flatness deviation	µm	0.2				
Spindle thread pitch	mm	0.5				
Measuring force	N	6.5			7.5	
Standard		DIN 863-3				
Indicating instrument (included in package)		Millimess 1003				
Dial comparator measuring range	µm	± 50				
Graduation value	µm	1				
Error limit G _e	µm	1				

Order no.	a	b	c	d	e
	mm	mm	mm	mm	mm
4154000	27	28	4	11	8
4154001	52	40	4	11	8
4154002	76	65	5.5	30	8
4154003	127	87	5.5	30	8
4154004	177	112	5.5	30	8



ACCESSORIES

Order no.	Product name	Product type
4158000	Stand, for holding outside micrometers	41 H
4159400	Setting gage, flat (25 mm)	43 A
4159401	Setting gage, flat (50 mm)	43 A
4159402	Setting gage, flat (75 mm)	43 A
4159403	Setting gage, flat (100 mm)	43 A
4159404	Setting gage, flat (125 mm)	43 A
4159405	Setting gage, flat (150 mm)	43 A
4159406	Setting gage, flat (175 mm)	43 A



43 A

41 H

Micromar 40 TS

Precision Bench Micrometer

DIN
863-3

FEATURES

- Operating and display units with satin chrome finish
- Rugged steel frame, can be inclined up to 45° from the sturdy base
- Retraction of the movable anvil ensures maximum wear resistance
- Height adjustable stop
- Constant measuring force
- Stainless spindle is hardened throughout and ground
- Spindle and anvil are carbide-tipped
- Locking device
- **Package contains:** instruction manual

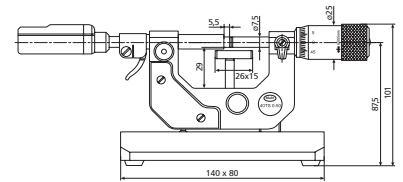
Application:

- Quick check of diameter of cylindrical parts (shafts, bolts, shanks)
- Thickness and length measurements
- Particularly suitable for exact series components



TECHNICAL DATA

Order no.	4154030	4154031	
Product type	40 TS		
Measuring range	mm	0 – 50	
Graduation value	mm	0.005	
Error limit	µm	2	
Parallelism deviation	µm	2	
Flatness deviation	µm	0.2	
Spindle thread pitch	mm	0.5	
Measuring force	N	6.5	
Standard	DIN 863-3		
Indicating instrument (included in package)	Millimess 1003	Without readout	
Dial comparator measuring range	µm	± 50	±
Graduation value	µm	1	
Error limit G _e	µm	1	



ACCESSORIES

Order no.	Product name	Product type
4335000	Millimess 0.5 µm, ± 25 µm	1002
4334000	Millimess 1 µm, ± 50 µm	1003
4333000	Millimess 5 µm, ± 130 µm	1004
4337624	Digital indicator, 0.0005 mm, 12.5 mm	1086 Ri
4337620	Digital indicator, 0.0005 mm, 12.5 mm	1086 R
4337663	Digital indicator, 0.0005 mm, 12.5 mm	1087 Ri
4337660	Digital indicator, 0.0005 mm, 12.5 mm	1087 R
4154035	Wooden case	
4159400	Setting gage, flat (25 mm)	43 A



1002



1003



1004



1086 Ri



1086 R;1086 R-HR;1086 ZR



1087 Ri



1087 R;1087 R-HR;1087 ZR



43 A

Micromar 40 TS

Precision Bench Micrometer

FEATURES

- Operating and display units with satin chrome finish
- Rugged steel frame, can be inclined up to 45° from the sturdy base
- Retraction of the movable anvil ensures maximum wear resistance
- Height adjustable stop
- Constant measuring force
- Stainless spindle is hardened throughout and ground
- Spindle and anvil are carbide-tipped
- Locking device
- **Package contains:** dial comparator 1003 Z, instruction manual

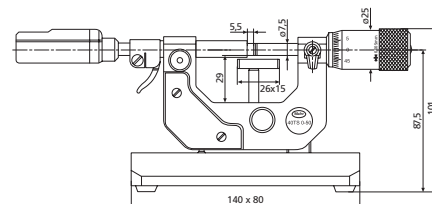
Application:

- Quick check of diameter of cylindrical parts (shafts, bolts, shanks)
- Thickness and length measurements
- Particularly suitable for exact series components



TECHNICAL DATA

Order no.	4154930	4154931
Product type		40 TS
Measuring range	inch	0 – 2"
Graduation value	inch	.00025"
Error limit	inch	.00008"
Parallelism deviation	inch	.00008"
Flatness deviation	inch	.00001"
Micrometer pitch	inch	.025"
Measuring force	N	6.5
Indicating instrument (included in package)		Millimess 1003 Z Without readout
Dial comparator measuring range	inch	± .0025"
Dial comparator scale graduation value	inch	.00005"
Error limit G _e	inch	.00005"



ACCESSORIES

Order no.	Product name	Product type
4335005	Millimess 0.5 µm, ± 25 µm	1002 T
4335900	Millimess .00002", ± .0010"	1002 Z
4334000	Millimess 1 µm, ± 50 µm	1003
4334900	Millimess .00005", ± .0020"	1003 Z
4333000	Millimess 5 µm, ± 130 µm	1004
4333900	Millimess .0001", ± .0050"	1004 Z
4337624	Digital indicator, 0.0005 mm, 12.5 mm	1086 Ri
4337620	Digital indicator, 0.0005 mm, 12.5 mm	1086 R
4337663	Digital indicator, 0.0005 mm, 12.5 mm	1087 Ri
4337660	Digital indicator, 0.0005 mm, 12.5 mm	1087 R
4154035	Wooden case	
4159940	Setting gage, flat (1 inch)	43 A



1003 Z;1002 Z



1003



1004



1004 Z



1086 Ri



1086 R;1086 R-HR;1086 ZR



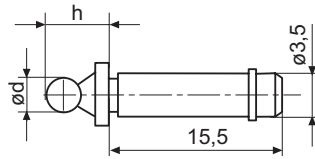
1087 Ri



1087 R;1087 R-HR;1087 ZR

Micromar

Ball Contact

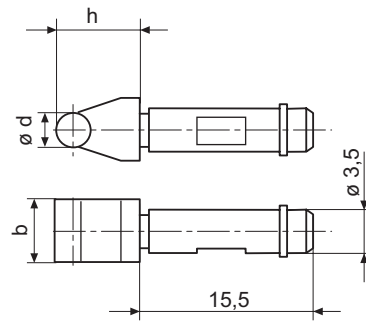


Order no.	d mm	h mm
4179150	0.5	5
4179151	0.551	5.1
4179152	0.62	5.1
4179153	0.623	5.1
4179154	0.63	5.1
4179155	0.722	5.2
4179156	0.862	5.4
4179157	0.895	5.4
4179158	0.965	5.5
4170550	1	5.5
4179159	1.1	5.6
4179160	1.118	5.6
4170551	1.25	5.8
4179161	1.125	5.6
4179162	1.35	5.9
4179163	1.372	5.9
4179164	1.385	5.9
4170552	1.5	6
4179165	1.524	6
4179166	1.54	6
4179167	1.6	6.1
4179168	1.65	6.2
4179169	1.7	6.2
4170553	1.75	6.3
4179170	1.782	6.3
4179171	1.8	6.3
4179172	1.829	6.3
4179173	1.9	6.4
4170554	2	6.5
4170568	2.032	6.5
4170569	2.2	6.7
4170564	2.25	6.8
4179174	2.284	6.8

Order no.	d mm	h mm
4179175	2.386	6.9
4179176	2.438	6.9
4170556	2.5	7
4179177	2.667	7.2
4179178	2.704	7.2
4179179	2.713	7.2
4179180	2.721	7.2
4179181	2.743	7.2
4170565	2.75	7.3
4170557	3	7.5
4179182	3.048	7.5
4170570	3.2	7.7
4170566	3.25	7.8
4179183	3.4	7.9
4170558	3.5	8
4179184	3.658	8.2
4170571	3.7	8.2
4170559	4	8.5
4170560	4.5	9
4179185	4.835	9.3
4170561	5	9.5
4179186	5.25	9.8
4179187	5.486	10
4170562	5.5	10
4170563	6	10.5
4179188	6.096	10.6
4179189	6.35	10.9
4170567	6.5	11
4170572	7	11.5
4170573	8	12.5
4170574	9	13.5
4170575	10	14.5

Micromar

Roller Blades, Carbide



Order no.	B mm	b mm	d mm	h mm
4510200	5.00	5	1	5.5
4510201	5.00	5	1.25	5.8
4510202	5.00	5	1.5	6
4510203	5.00	5	1.75	6.3
4510204	5.50	5	2	6.5
4510206	5.50	5.5	2.5	7
4510207	5.50	5.5	3	7.5
4510208	5.50	5.5	3.5	8
4510209	5.50	5.5	4	8.5
4510210	5.50	5.5	4.5	9
4510211	6.00	6	5	9.5
4510212	6.00	6	5.5	10
4510213	6.00	6	6	10.5